Project WET
Connections to KY
Core Content 4.1

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Elementary

Arts & Humanities
AH-04-4.4.1
Students will create artwork using the elements of art and principles of design.

AH-05-4.4.1
Students will create artwork using the elements of art and principles of design.

Mathematics
MA-EP-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, tally tables, pictographs, bar graphs, circle graphs with two or three sectors, line plots, two-circle Venn diagrams).
DOK 3

MA-04-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, tally tables, pictographs, bar graphs, circle graphs, line plots, Venn diagrams). DOK 3

MA-05-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, tally tables, pictographs, bar graphs, circle graphs, line plots, Venn diagrams, line graphs).
DOK 3

MA-EP-4.1.2
Students will collect data.

MA-04-4.1.2
Students will collect data.

MA-05-4.1.2
Students will collect data (e.g., tallies, surveys) and explain how the skills apply in real-world and mathematical problems.

MA-EP-4.1.3
Students will organize and display data.

MA-04-4.1.3
Students will construct data displays (pictographs, bar graphs, line plots, Venn diagrams, tables).
DOK 2

MA-05-4.1.3
Students will construct data displays (pictographs, bar graphs, line plots, line graphs, Venn diagrams, tables).
DOK 2

MA-EP-5.3.1
Students will model real-world and mathematical problems with simple number sentences (equations and inequalities) with a missing value (e.g., 2 + ? = 7, ___< 6) and apply simple number sentences to solve mathematical and real-world problems.
DOK 2

Practical Living
PL-EP-2.1.1
Students will apply fundamental motor skills:
Locomotor:

- Walking
- Running
- Skipping
- Hopping
- Galloping
- Sliding
- Leaping
- Jumping

Nonlocomotor:

- Turning
- Twisting
- Bending
- Stretching
- Swinging
- Swaying
- Balancing

Fundamental manipulative skills:

- Hitting
- Kicking
- Throwing
- Catching

- Striking
- Dribbling

PL-04-2.1.1
Students will apply fundamental motor skills:
Locomotor:

- Walking
- Running
- Skipping
- Hopping
- Galloping
- Sliding
- Leaping
- Jumping

Nonlocomotor:

- Turning
- Twisting
- Bending
- Stretching
- Swinging
- Swaying
- Balancing

Fundamental manipulative skills:

- Hitting
- Kicking
- Throwing
- Catching
- Striking
- Dribbling

PL-05-2.1.1
Students will apply fundamental motor skills:
Locomotor:

- Walking
- Running
- Skipping
- Hopping
- Galloping
- Sliding
- Leaping
- Jumping

Nonlocomotor:

- Turning
- Twisting
- Bending
- Stretching
- Swinging
- Swaying
- Balancing

Fundamental manipulative skills:

- Hitting
- Kicking
- Throwing
- Catching
- Striking
- Dribbling

Writing

WR-E-2.3.0

Organization: Students will create unity and coherence to accomplish the focused purpose by

- Engaging the audience
- Establishing a context for reading when appropriate
- Communicating ideas and support in a meaningful order
- Applying transitions and transitional elements to guide the reader through the piece
- Developing effective closure

WR-EP-2.3.1

In Reflective Writing,

- Students will engage the interest of the reader.
- Students will communicate ideas and details in meaningful order.
- Students will use transitions or transitional elements between ideas to guide the reader.
- Students will create paragraphs.

Students will create conclusions effectively.

WR-04-2.3.1

In Reflective Writing,

- Students will engage the interest of the reader.
- Students will communicate ideas and details in meaningful order.
- Students will apply a variety of transitions or transitional elements between ideas and details to guide the reader.
- Students will apply paragraphing effectively.

Students will create conclusions effectively.

WR-05-2.3.1
In Reflective Writing,

- Students will engage the interest of the reader.
- Students will communicate ideas and details in meaningful order.
- Students will apply a variety of transitions or transitional elements between ideas and details to guide the reader.
- Students will apply paragraphing effectively.

Students will create conclusions effectively

Middle School

Arts & Humanities
AH-06-4.4.1
Students will create art for specific purposes using the elements of art and principles of design to communicate ideas.

AH-07-4.4.1
Students will create art for specific purposes using the elements of art and principles of design to communicate ideas.

AH-08-4.4.1
Students will create art for specific purposes using the elements of art and principles of design to communicate ideas.

Mathematics
MA-06-1.4.1
Students will describe and apply ratios to solve real-world problems.
DOK 2

MA-07-1.4.1
Students will apply ratios and proportional reasoning to solve real-world problems (e.g., percents, sales tax, discounts, rate).
DOK 3

MA-08-1.4.1
Students will apply ratios and proportional reasoning to solve real-world problems (e.g., percents, constant rate of change, unit pricing, percent of increase or decrease).
DOK 3

MA-06-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, pictographs, bar graphs, circle graphs, line plots, Venn diagrams, line graphs, stem-and-leaf plots). DOK 3

MA-07-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, pictographs, bar graphs, circle graphs, line plots, Venn diagrams, line graphs, stem-and-leaf plots, scatter plots).
DOK 3

MA-08-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, pictographs, bar graphs, circle graphs, line plots, Venn diagrams, line graphs, stem-and-leaf plots, scatter plots, histograms, box-and-whiskers plots).
DOK 3

MA-06-4.1.2
Students will explain how different representations of data (e.g., tables, graphs, diagrams, plots) are related.

MA-07-4.1.2
Students will explain how different representations of data (e.g., tables, graphs, diagrams, plots) are related.

MA-08-4.1.2
Students will explain how different representations of data (e.g., tables, graphs, diagrams, plots) are related.

MA-07-4.1.3
Students will read/interpret, analyze and make inferences from box and whisker plots of data and make predictions and draw conclusions from the data.

MA-06-5.3.1
Students will model and solve real-world and mathematical problems with simple equations and inequalities (e.g., $8x = 4$,
$x+2 > 5$). DOK 2

MA-07-5.3.1
Students will model and solve real-world and mathematical problems with one- or two-step single variable, first-degree equations or inequalities (e.g., $2x+1 = 9$, $3x+3 < 9$). (Statements and solutions use only non-negative numbers.)
DOK 2

MA-08-5.3.1
Students will model and solve single variable, first-degree real-world and mathematical problems (e.g., $5x+2 = x+22$, $x-4 < -60$).
DOK 2

Practical & Living

PL-06-2.1.1
Students will apply a combination techniques of locomotor and nonlocomotor skills which are necessary for the improvement of transitional motor skills (e.g., punting, serving, dribbling):

- locomotor - moving from one place to another (e.g., running, skipping, hopping)
- nonlocomotor – stationary (e.g., bending, stretching, twisting) movements

PL-07-2.1.1
Students will apply a combination techniques of locomotor and nonlocomotor skills which are necessary for the improvement of transitional motor skills (e.g., punting, serving, dribbling):

- locomotor - moving from one place to another (e.g., running, skipping, hopping)
- nonlocomotor - stationary (e.g., bending, stretching, twisting) movements

PL-08-2.1.1
Students will apply a combination techniques of locomotor and nonlocomotor skills which are necessary for the improvement of transitional motor skills (e.g., punting, serving, dribbling):

- locomotor - moving from one place to another (e.g., running, skipping, hopping)
- nonlocomotor – stationary (e.g., bending, stretching, twisting) movements

High School

MA-HS-4.1.1
Students will analyze and make inferences from a set of data with no more than two variables, and will analyze problems for the use and misuse of data representations. DOK 3

MA-HS-4.1.2
Students will construct data displays for data with no more than two variables. DOK 2

MA-HS-4.1.3
Students will represent real-world data using matrices and will use matrix addition, subtraction, multiplication (with matrices no larger than 2x2) and scalar multiplication to solve real-world problems.

MA-HS-5.3.1
Students will model, solve and graph first degree, single variable equations and inequalities, including absolute value, based in real-world and mathematical problems and graph the solutions on a number line. DOK 2